

Alaska Highway Gas Pipeline Project

MAR 4 1982

FOOTHILLS PIPE LINES (YUKON) LTD.

ALASKA HIGHWAY GAS PIPELINE PROJECT

COMMUNITY INFORMATION PROGRAM

GEOTECHNICAL DRILLING PROGRAM (LAND BASED)

GEOTECHNICAL INVESTIGATION - KLUANE LAKE

Winter 1982

Community Relations February, 1982

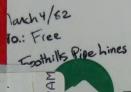


TABLE OF CONTENTS

1.0	Introduction
2.0	Program Description
2.1	Geotechnical Drilling Program (Land Based
2.2	Method
2.3	Geotechnical Investigation - Kluane Lake
2.4	Method

CORRECT FOR ELINES (YERON) EDE. Sake Line, Line, Lee Properties Project

Fortnisse Pipe Lines (Yakon) Established Lines (Yakon) Established Lines (Yakon) Established Lines Lin

The second of the property second or orgin February of the second of the

Fig. 79 of plants in class on fine size of balant of a size of the size of the

FOOTHILLS PIPE LINES (YUKON) LTD. Alaska Highway Gas Pipeline Project Winter, 1982

1.0 Introduction

During the first quarter of 1982 Foothills Pipe Lines (Yukon) Ltd. plans to carry out two geotechnical engineering programs in Yukon. Both programs are required for mainline design purposes.

The first, a land drilling program is set to begin February 5, 1982 and will be completed by March 15, 1982.

The second program involves an intensive geotechnical examination of the proposed Kluane Lake crossing. The program is to be carried out on the ice with mobilization February 14, 1982. Completion date is March 17, 1982.

meijejes eg asta

3.1 Percent until Percent (Land Sused)

mercad priffred besed basi straining a fit itself and

P. Company of the Com

end of the drait will have by the critical forms and forms and first wife graphs for and anyther one of the right of the right of the critical forms.

defill rigs we as a compact to such a such as such as a condition of Whitehearth and a condition of Salpany is a condition of Salpany is any lying a Madwell borner Drill.

edelene Kluene Lake

in the result of the control of the state of

2.0 Program Description

2.1 Geotechnical Drilling Program (Land Based)

The objective of this winter's land based drilling program is:

- a) to further delineate the extent of ice rich soils (permafrost) along the pipeline right-of-way; and
- b) to determine the existence and extent of unfrozen ground along the pipeline right-of-way.

2.2 Method

- a) Approximately 60 drill holes are planned with selected holes to be instrumented.
- b) Most of the drill holes will be located in Sections 4, 5, 6 and 8. A very few drill holes are contemplated for other Sections of the right-of-way.
- c) Two drill rigs are to be used. Midnight Sun Drilling Company Ltd. of Whitehorse is supplying a C.M.E. drill. Beck Construction of Calgary is supplying a Nodwell mounted Becker Hammer Drill.

2.3 Geotechnical Investigation - Kluane Lake

The objective of this winter's program on Kluane Lake is to determine engineering behaviour of side slopes and bottom of Kluane Lake under earthquake conditions. Mobilization is February 14, 1982.

a fine for the gales will provide a 29 top swin alls take each early pose it sleethin come processoraten. Evice is said in the case of the

near, Descriptes and rook arger becamble in ert, and hers the reschiffed nets their ing in Sam France, o and preparation of an eff.

coste que nofa

seen demand manity Relations Goordinawar trass total

2.4 Method

- a) Ertec from Los Angeles will provide a 20 ton twin axle truck equipped with electric cone penetrometer. Ertec is responsible for single shift operation of the cone penetrometer, interpretation of results and preparation of a report of findings. Simply put, a cone penetrometer is a steel rod that is pushed into the lake bottom. It measures very precisely the physical resistance of the soil as it is inserted on both a lateral and vertical axis. From there it is a relatively straight forward mathematical calculation to predict such things as slope stability and shear strength of the soil under a variety of seismic conditions.
- b) Foundex Explorations of Vancouver will provide drilling, sampling and casing placement services for the operation. This includes a Simcoe 2800 drill enclosed in a 44 foot by 12 foot plywood sled mounted sled.
- c) Robinson, Dames & Moore are to provide a site technician to recover drill samples and look after borehole logging, sample shipment, analyses of all geotechnical data including lab testing in San Francisco and preparation of an engineering report.

For further information contact:

Maureen Jensen
Community Relations Coordinator
Foothills Pipe Lines (Yukon) Ltd.
308 Steele Street
Whitehorse, Yukon Territory
(403) 668-2088

Digitized by the Internet Archive in 2022 with funding from University of Alberta Libraries

		Date	Due		
YKB &	-1				
Alaska	FPL	:621.644:(Y e Lines (Yu way Gas Pi	ıkon) Lto	d.	
Project				DA	TE
LOANED	E	ORROWER'S	NAME	DU	JE
	1				
YEB					
YEB					
YEB					
48668		Pam:621.6 FPLY	44:(*430))	

BOREAL INSTITUTE FOR NORTHERN STUDIES, LIBRARY
THE UNIVERSITY OF ALBERTA
EDMONTON, ALBERTA TGG 2E9
CANADA

